Tables

TABLE 5.10-1 MONITORED NATURAL ATTENUATION QUARTERLY MONITORING PROGRAM IAOC F2 - FORMER 40-ACRE TANKFIELD SEPARATOR AND IAOC F3 - 40-ACRE TANKFIELD UNDEVELOPED PROPERTY

EXXONMOBIL ENVIRONMENTAL AND PROPERTY SOLUTIONS / BAYWAY REFINERY COMPLEX LINDEN, NEW JERSEY

		Analytical Parameters		
Investigative Area of Concern Designation	Designation	Total Arsenic	Benzene	
F1 - 40 Acre Tankfield	GMW-665		Х	
	GMW-109	Χ	Χ	
	GMW-142		Χ	
	GMW-185	Χ	Χ	
F2 - Former 40 Acre Tankfield Separator	GMW-253	Χ		
	GMW-298		Χ	
	GMW-299		Χ	
	GMW-300		Х	
F3 - 40 Acre Tankfield Undeveloped Property	FA-1S	Χ	Χ	

All samples are collected on a quarterly basis.

TABLE 5.10-2 GROUND WATER SAMPLING ANALYTICAL RESULTS IAOC F2 - FORMER 40-ACRE TANKFIELD SEPARATOR AND IAOC F3 - 40-ACRE TANKFIELD UNDEVELOPED PROPERTY

EXXONMOBIL ENVIRONMENTAL AND PROPERTY SOLUTIONS COMPANY / BAYWAY REFINERY COMPLEX LINDEN, NEW JERSEY

SEPTEMBER 3, 2020 THROUGH MAY 24, 2022

Lo	NJ CLASS II-A	FA-1S								
Date		GWRS	09/03/2020	10/07/2020	02/24/2021	06/23/2021	08/27/2021	10/29/2021	02/23/2022	05/23/2022
Chemical	Units									
Arsenic	μg/L	3	11	7.4	29	7.1	11	9	13	9.8
Benzene	μg/L	1	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30

L	ocation ID	NJ CLASS II-A				GMW-109				
	Date	GWRS	09/03/2020	10/07/2020	02/24/2021	06/15/2021	08/27/2021	10/28/2021	02/22/2022	05/20/2022
Chemical	Units									
Arsenic	µg/L	3	<0.68	<0.68	0.86 J	<0.68	<0.68	<0.68	<0.68	<0.68
Benzene	μg/L	1	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30

Location ID NJ CLASS II-A GMW-142										
Date		GWRS	09/03/2020	10/07/2020	02/24/2021	06/18/2021	08/26/2021	10/28/2021	02/22/2022	05/20/2022
Chemical	Units									
Arsenic	μg/L	3	NA							
Benzene	μg/L	1	<4.0	<0.20	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30

L	ocation ID	NJ CLASS II-A				GMW-185				
	Date	GWRS	09/03/2020	10/07/2020	02/24/2021	06/18/2021	08/30/2021	10/27/2021	02/22/2022	05/20/2022
Chemical	Units									
Arsenic	μg/L	3	0.94 J	0.73 J	1.3 J	<0.68	<0.68	<0.68	<0.68	0.88 J
Benzene	μg/L	1	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30

TABLE 5.10-2 GROUND WATER SAMPLING ANALYTICAL RESULTS IAOC F2 - FORMER 40-ACRE TANKFIELD SEPARATOR AND IAOC F3 - 40-ACRE TANKFIELD UNDEVELOPED PROPERTY

EXXONMOBIL ENVIRONMENTAL AND PROPERTY SOLUTIONS COMPANY / BAYWAY REFINERY COMPLEX LINDEN, NEW JERSEY

SEPTEMBER 3, 2020 THROUGH MAY 24, 2022

Lo	NJ CLASS II-A	GMW-253								
Date		GWRS	09/03/2020	10/08/2020	02/24/2021	06/18/2021	08/30/2021	10/28/2021	02/23/2022	05/24/2022
Chemical	Units									
Arsenic	μg/L	3	3.0	1.9 J	1.8 J	1.6 J	2.4	2.4	2.6	5.9
Benzene	μg/L	1	NA							

Location ID NJ CLASS II-A GMW-298										
	Date	GWRS	09/03/2020	10/08/2020	02/24/2021	06/08/2021	08/26/2021	10/28/2021	02/22/2022	05/19/2022
Chemical	Units									
Arsenic	μg/L	3	NA							
Benzene	μg/L	1	<2.0	<2.0	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30

Lo	cation ID	NJ CLASS II-A	GMW-299									
	Date	GWRS	09/03/2020	10/06/2020	02/24/2021	06/08/2021	08/27/2021	10/28/2021	02/23/2022	05/19/2022		
Chemical	Units											
Arsenic	μg/L	3	NA									
Benzene	μg/L	1	<2.0	<0.20	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30		
Lo	cation ID	NJ CLASS II-A	GMW-300									
	Date	GWRS	09/04/2020	10/06/2020	02/24/2021	06/10/2021	08/27/2021	10/28/2021	02/23/2022	05/19/2022		
Chemical	Units											
Arsenic	μg/L	3	NA									
Benzene	μg/L	1	8.2 J	<10	2.3	3.1 J H	1.2	0.68 J	1.1	1.3		

TABLE 5.10-2 GROUND WATER SAMPLING ANALYTICAL RESULTS

IAOC F2 - FORMER 40-ACRE TANKFIELD SEPARATOR AND IAOC F3 - 40-ACRE TANKFIELD UNDEVELOPED PROPERTY

EXXONMOBIL ENVIRONMENTAL AND PROPERTY SOLUTIONS COMPANY / BAYWAY REFINERY COMPLEX LINDEN, NEW JERSEY

SEPTEMBER 3, 2020 THROUGH MAY 24, 2022

Location ID NJ CLASS II-A GMW-665										
Date		GWRS	09/03/2020	10/07/2020	02/24/2021	06/10/2021	08/27/2021	10/29/2021	02/22/2022	05/20/2022
Chemical	Units									
Arsenic	μg/L	3	NA	NA	NA	NA	NA	NA	<0.30	<0.30
Benzene	μg/L	1	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	NA	NA

Notes:

GWRS New Jersey Department of Environmental Protection Class II-A Ground Water Remediation Standards

μg/L Micrograms per liter

NA Not analyzed

<5.0 Not detected at or above the method detection limit, method detection limit included.

J Indicates an estimated value

H Sample was prepped or analyzed beyond the specified holding time

Gray Shading Indicates a concentration above the NJ Class II-A GWRS

Figures

